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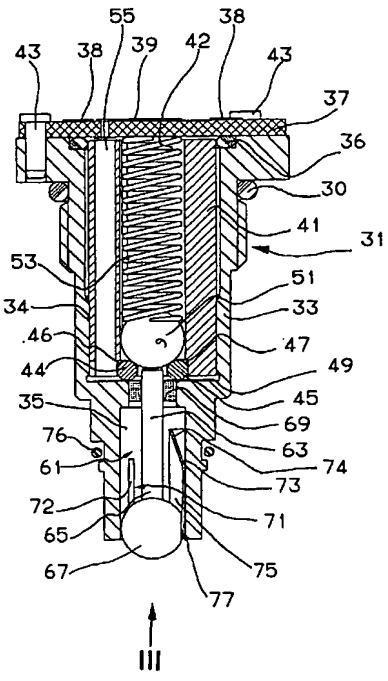
(54) Title: TOUCH PROBE WITH TRANSMISSION DEVICE AND SPRING FOR URGING THE DEVICE AGAINST GUIDE SURFACES



(57) Abstract: A touch probe with an arm (13) coupled to a movable arm-set (3) supported in a casing (1) includes an electric switch (31) with a housing (33) fixed to the casing and a mechanical transmission device (61) for mechanically transmitting displacements of the arm, and causing the disengagement of a conductive small ball (51) from two stationary conductive bars (44,45), thereby opening an electric detecting circuit. An elongate mechanical body (63) of the mechanical transmission device includes a spherical-shaped element (67) that is transversally urged against a binary (71) for guiding with accuracy and free of clearances the displacements of the elongate mechanical body. A bent flat spring (73) contacts a plane portion of the spherical transmission element for achieving both the transversal thrust against the binary and the antirotation of the elongate mechanical body.

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